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ន្តុ Smurf2 (D8B8) Rabbit mAb



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Applications: W, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 80	Source/Isotype: Rabbit IgG	UniProt ID: #Q9HAU4	Entrez-Gene Id: 64750		
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:50			
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				ol and less than		
Specificity/Sensitivity		Smurf2 (D8B8) Rabbit mAb recognizes endogenous levels of total Smurf2 protein. This antibody also cross-reacts with proteins of unknown origin at 250 and 46 kDa in some cell lines.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro160 of human Smurf2 protein.						
Background		Smad ubiquitin regulatory factor 2 (Smurf2) is a HECT domain E3 ubiquitin ligase. It was initially identified as an inhibitor of TGF- β /BMP signaling by targeting R-Smads and TGF type I receptor for ubiquitination and degradation (1-3). Subsequent studies have revealed its role in neuronal and planar cell polarity, as well as in the senescence response and suppression of tumorigenesis (4-8). Smurf2 has a broad range of substrates including RUNX2, AMSH, Rap1B, and RNF11 (5,9-11). Smurf2 is widely expressed in various tissues. The C2 domain of Smurf2 inhibits its catalytic activity by interacting with the HECT domain (12). Research studies have shown that Smurf2 functions as a tumor suppressor by maintaining genomic stability through targeting RNF20 (13).						
Background Re	eferences	 Zhang, Y. et al. (2001) <i>Proc Natl Acad Sci U S A</i> 98, 974-9. Kavsak, P. et al. (2000) <i>Mol Cell</i> 6, 1365-75. Izzi, L. and Attisano, L. (2004) <i>Oncogene</i> 23, 2071-8. Zhang, H. and Cohen, S.N. (2004) <i>Genes Dev</i> 18, 3028-40. Schwamborn, J.C. et al. (2007) <i>EMBO J</i> 26, 1410-22. Narimatsu, M. et al. (2009) <i>Cell</i> 137, 295-307. Nie, J. et al. (2010) <i>J Biol Chem</i> 285, 22818-30. Ramkumar, C. et al. (2003) <i>Br J Cancer Res</i> 72, 2714-9. Subramaniam, V. et al. (2003) <i>Br J Cancer</i> 89, 1538-44. Li, H. and Seth, A. (2004) <i>Oncogene</i> 23, 1801-8. Kaneki, H. et al. (2007) <i>Cell</i> 130, 651-62. Blank, M. et al. (2012) <i>Nat Med</i> 18, 227-34. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot B	Suffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.						
Applications K	ey	W: Western Blotting IP: Immunoprecipitation						
Cross-Reactivit	y Key	H: Human M: Mouse R: Rat Mk: Monkey						
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